

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** S25 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Fisheries

Site Information

| | | | |
|------------------------|----------------------|-------------------|--|
| Desc. By: | R. Moreton | Locality: | Andrew Jones, "Daisy Bank", near Richmond. |
| Date Desc.: | 01/03/06 | Elevation: | 28 metres |
| Map Ref.: | GPS S.A. Off | Rainfall: | 514 |
| Northing/Long.: | 5269665 AMG zone: 55 | Runoff: | No runoff |
| Easting/Lat.: | 535205 Datum: GDA94 | Drainage: | Imperfectly drained |

Geology

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|----------------------|----------|------------------------------------|--------------------|
| ExposureType: | Soil pit | Conf. Sub. is Parent. Mat.: | Probable |
| Geol. Ref.: | Ts | Substrate Material: | Soil pit, Alluvium |

Landform

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|-------------------------|-----------------------------------|------------------------|--------------------|
| Rel/Slope Class: | Gently undulating plains <9m 1-3% | Pattern Type: | Alluvial fan |
| Morph. Type: | Lower-slope | Relief: | No Data |
| Elem. Type: | Valley flat | Slope Category: | Very gently sloped |
| Slope: | 1 % | Aspect: | 50 degrees |

Surface Soil Condition Loose

Erosion

Soil Classification

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|--|---|--------------------------------|-----|
| Australian Soil Classification: | Sodic Eutrophic Brown Kandosol Medium Non-gravelly Clay-loamy Clayey Deep | Mapping Unit: | N/A |
| ASC Confidence: | All necessary analytical data are available. | Principal Profile Form: | N/A |
| | | Great Soil Group: | N/A |

Site Disturbance

Vegetation

Surface Coarse Fragments No surface coarse fragments

Profile Morphology

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| Ap | 0 - 0.18 m | Very dark brown (10YR2/2-Moist); Grey (10YR5/1-Dry); , 0-0% ; Fine sandy clay loam; Moderate grade of structure, 5-10 mm, Polyhedral; Moderate grade of structure, <2 mm, Polyhedral; Earthy fabric; Few plastic; Slightly |
| AB | 0.18 - 0.29 m | Very dark grey (10YR3/1-Moist); Greyish brown (10YR5/2-Dry); Mottles, 10YR44, 2-10% , Distinct; Light clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 10-20 mm, Angular blocky; Earthy fabric; Common (1-5 per 100mm2) Medium macropores, Moderately moist; Firm consistence; Slightly plastic; Slightly sticky; Few, very fine (0-1mm) roots; Abrupt, Smooth change to - |
| B1t | 0.29 - 0.56 m | Dark yellowish brown (10YR4/4-Moist); Light brownish grey (10YR6/2-Dry); Mottles, 10YR32, 2-10% , 5-15mm, Faint; Light clay; Massive grade of structure; Earthy fabric; Moist; Strong consistence; Moderately plastic; Normal plasticity; Moderately sticky; Few, very fine (0-1mm) roots; Diffuse, Smooth change to - |
| B2t | 0.56 - 1 m | Dark yellowish brown (10YR4/4-Moist); Mottles, 10YR56, 2-10% , 0-5mm, Faint; Light medium clay; Massive grade of structure; Earthy fabric; Moist; Very firm consistence; |

Morphological Notes

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| AB | Fine Light Clay |
| B1t | Charcoal present. Fine sand particles present, <2mm. Soil sampled S25C from depth 29-56cm |
| B2t | Fine sand particles present, <2mm. Soil sample S25D from depth 56-86cm, sample S25E from |

| | |
|------------------------|---|
| 15A1_NA for soluble | Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts |
| 15G_C_AL2 By AAS | Exchangeable aluminium - meq per 100g of soil - Aluminium By KCl extraction and determination |
| 15G1 | Exchange acidity (hydrogen and aluminium) by 1M potassium chloride |

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|---------|---|
| 15J_H | Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen) |
| 15N1 | Exchangeable sodium percentage (ESP) |
| 18A1 | Bicarbonate-extractable potassium |
| 3A1 | EC of 1:5 soil/water extract |
| 4A1 | pH of 1:5 soil/water suspension |
| 4B2 | pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1 |
| 6B2 | Total organic carbon - high frequency induction furnace, volumetric |
| 7A5 | Total nitrogen - high frequency induction furnace, thermal conductivity |
| 7C1a | Ammonium-N, in presence or absence of nitrite |
| 7C1b | (Nitrate+nitrite)-N, in presence of nitrite |
| 9B2_COL | Bicarbonate-extractable phosphorus - automated colour. Based on Colwell (1965). Method no |
| longer | |
| | recommended |
| 9C2 | Olsen-extractable phosphorus - automated colour |